

GREAT SALT LAKE MINERALS & CHEMICALS CORPORATION
A SUBSIDIARY OF GULF RESOURCES & CHEMICAL CORPORATION
P.O. BOX 1190 • 765 N. 10500 W. LITTLE MOUNTAIN • OGDEN, UTAH 84402 TEL. (801) 731-3100 • TWX (910) 971-5910

ACT/057/002

January 14, 1986

RECEIVED

MAX J. REYNOLDS
VICE PRESIDENT OPERATIONS

Mr. Lowell P. Braxton
Acting Administrator
Mineral Resource Development
and Reclamation Program
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84114

JAN 20 1986

DIVISION OF OIL
GAS & MINING

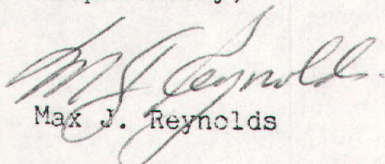
Dear Mr. Braxton:

Enclosed please find:

1. Revised Annual Operations and Progress Report.
2. Revised GSL drawings Nos. 800-11-05-019 and 800-11-05-020 which show pits with any acreage changes from that filed February 1985.

All other documents filed remain unchanged.

Respectfully,


Max J. Reynolds

MJR:na

Enclosures

FOX RIVER BOND
25% COTTON

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year February 1985
to Month/Year February 1986

(To be submitted for each mining operation at the end of each calendar year to the Division at this address:)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

OPERATOR: Great Salt Lake Min. & Chem. Corp. MINE NAME: GSL

ADDRESS: 765 North 10500 West
Ogden, Utah 84404

PERMIT NUMBER AND DATE OF PERMIT: Act/057/002 September 2, 1983

REPRESENTATIVE: M. J. Reynolds
As previously filed - no changes

SECTION(S): _____ TOWNSHIP(S): _____ RANGE(S): _____

MINERAL(S) MINED: Gravel, Rock

STATE AND/OR FEDERAL MINERAL LEASE NUMBERS: No changes from those submitted previously.

SPECIAL USE PERMITS AND/OR RIGHTS-OF-WAY: None

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an up-dated map and plan prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

Disturbance

Acreage

Pit

167

Roads

Included above

Facilities

Waste Dumps

Other

(b) Tabulation of acreage affected to date (by years).

Date by Year

Acreage (Total

1975

1976

1977

1978

1979

1980

1981

19883

91

19834

141.3 (9 leased)

1985

167 (9 leased)

(c) Tabulation of all topsoil (new) ^{107 (9 leased)} stockpile volumes (see chart below) and date of stockpiling. None

SOIL TABULATION CHART

Area Affected (in mining sequence)
(If more space is needed, please attach.)

Area			
1	2	3	etc.

Acreage of Area

Depth of Topsoil Removal (inches)

Depth of Topsoil Replacement (inches)*

Estimate of Topsoil Volume Salvaged (yd³ or ac ft)

Volume Actually Salvaged (yd³ or ac ft)

Volume Required for Reclamation (yd³ or ac ft)

Surplus or Deficit Volume (yd³ or ac ft)

Storage Status (short- or long-term)

Soil Tabulation Chart (continued)

Area Affected (in mining sequence)	Area			
	1	2	3	etc.
Storage Location				
Area Where Soil Has Been Used (if not stored)				
Running Total (all stockpiles) (yd ³ or ac ft)				
Short-term				
Long-term				

*Of previously stripped area recently reclaimed. None Reclaimed

(d) Tabulation of all (newly removed) out-of-pit spoil volumes, date of placement and illustration on a map.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>

(e) Tabulation of quantity of commodity mined.

	<u>Commodity</u>	<u>Tonnage</u>
(Mined)		
(Milled)		

(f) Description of any new construction during the report period with illustration on a map, including, but not limited to:

1. Buildings and support facilities.

2. Roads.

3. Diversion ditches, collector ditches, interceptor ditches, etc.

4. Culverts.

5. Sediment ponds, containment ponds.

6. Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.).

7. Topsoil stockpiles.

(g) Description of any environmental problem areas with a proposed plan for mitigation and illustration on a map, including, but not limited to:

1. Pit stability problems.

2. Subsidence.

3. Accidental water discharge, dam failure, etc.

4. Slumping, sliding or erosion.

5. Revegetation problem areas.

6. Existence and location of unsuitable (toxic) overburden.

RECLAMATION:

(a) Tabulation of the acreage reclaimed during the report period with illustration on a map, distinguishing between:

1. Backfilled, graded and contoured areas.

Area

Acreage

2. Topsoiled areas.

Area

Acreage

3. Seeded areas.

<u>Area</u>	<u>Acreage</u>
Refer to Drawing #800-11-5-019 Pit #1	8 acres
Little Mountain Pit	1 acre

4. Reseeded areas (areas previously seeded, then seeded again).

<u>Area</u>	<u>Acreage</u>

(b) Tabulation of total acreage reclaimed (seeded with permanent seed mix) to date by years with illustration on an updated map:

<u>Year</u>	<u>Acreage</u>
1975	
1976	
1977	
1978	
1979	
1980	
1981	
1982	
1983	1 acre
1984	1 acre
1985	10 acres

(c) Description of the reclamation procedures used during the report period, including:

1. Average depth of topsoil applied.

2. Type of seed (species) used for seeding during the report period.

Seed Mix: Alkali Sacaton, Western Wheatgrass, Basin Wildrye,
Yellow Sweetclover, Big Sagebrush

3. Date of seeding during the report period.

Spring _____

Fall August 1985

4. Seeding procedures used.

(Hand broadcast or drilled or any other).

Drilled

5. Rate of seed application.

Pounds Per Acre of Pure Live Seed (PLS) (if varied, please explain)

Alkali Sacaton- 1#/acre. Western Wheatgrass - 4#/acre.
Basin Wildrye - 4#/acre. Yellow Sweetclover - 2#/acre.
Big Sagebrush -12#/acre

6. Type and rate of fertilizer applied.

None

7. Type and rate of mulch applied.

None

8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.).

None

9. Revegetation test plot information.

(Cover, density, productivity, etc.)

10. Soil analysis results.

(d) Description of results of previous revegetation efforts, including:
(This should be done as applicable.)

1. Types (species) of seed that have germinated and are growing.

2. Types (species) of seed that are not growing successfully.

3. Areas experiencing problems with weeds and weed types.

4. Significant erosional problems.

5. Areas of unsuitable overburden on the surface as related to
revegetation failure.

6. Procedures used or proposed to correct these problems.

7. Acreage and dates of release (upon inspection by the State) of revegetated areas.

<u>Area</u>	<u>Date</u>	<u>Acreage</u>

8. Results of soil analysis.

(e) Summarization of the reclamation costs incurred during the report period, including itemized costs for each operation (i.e., grading, topsoil replacement, seeding, etc.) and for each type of disturbance (i.e., spoil, haul roads, facilities removal, etc.) on a per acre basis.

	<u>Acres</u>	<u>Cost/Acre</u>
1. Grading		
2. Backfilling		
3. Contouring		
4. Topsoil Replacement	10	\$100
5. Seeding		
A. Seedbed Preparation	10	\$100
B. Mulch		
C. Fertilizer		
D. Seed	10	\$111.70
6. Other		

BOND INFORMATION:

- A. An updated bond estimate should be included, if required in the Division's approval of the Mining and Reclamation Plan (MRP) or if changes to the MRP have occurred, including a detailed itemization of actual/estimated reclamation costs as outlined in the RECLAMATION section above. The date of the release of revegetated areas from further responsibility for a partial bond release, if applicable, should also be included.

	<u>Amount</u>	<u>Type</u>	<u>Date Posted</u>
Present Bond	\$250,000	Surety	March 11, 1983

Increased disturbance, if any: 26 acres GSL

Increased Bond Amount (attached reclamation estimate).

B. Bond release.

<u>Acres</u>	<u>Bond Amount Released</u>	<u>Date</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).